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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/073,300

DATE: 07/09/2002

TIME: 14:03:46

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF3\07092002\J073300.raw

ENTERED

3 <110> APPLICANT: Reiter, Yoram  
5 <120> TITLE OF INVENTION: SINGLE CHAIN CLASS I MAJOR HISTO- COMPATIBILITY COMPLEXES  
7 <130> FILE REFERENCE: 02/23339  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/073,300  
C--> 9 <141> CURRENT FILING DATE: 2002-06-25  
9 <160> NUMBER OF SEQ ID NOS: 20  
11 <170> SOFTWARE: PatentIn version 3.0  
14 <210> SEQ ID NO: 1  
16 <211> LENGTH: 9  
18 <212> TYPE: PRT  
C--> 20 <213> ORGANISM: Artificial  
24 <220> FEATURE:  
26 <223> OTHER INFORMATION: synthetic peptide  
28 <400> SEQUENCE: 1  
30 Ile Met Asp Gln Val Pro Phe Ser Val  
31 1 5  
33 <210> SEQ ID NO: 2  
35 <211> LENGTH: 9  
37 <212> TYPE: PRT  
C--> 39 <213> ORGANISM: Artificial  
43 <220> FEATURE:  
45 <223> OTHER INFORMATION: synthetic peptide  
47 <400> SEQUENCE: 2  
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50 1 5  
52 <210> SEQ ID NO: 3  
54 <211> LENGTH: 9  
56 <212> TYPE: PRT  
C--> 58 <213> ORGANISM: Artificial  
62 <220> FEATURE:  
64 <223> OTHER INFORMATION: synthetic peptide  
66 <400> SEQUENCE: 3  
68 Leu Leu Phe Gly Tyr Pro Val Tyr Val  
69 1 5  
71 <210> SEQ ID NO: 4  
73 <211> LENGTH: 1048  
75 <212> TYPE: DNA  
77 <213> ORGANISM: Homo sapiens  
81 <400> SEQUENCE: 4  
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84 tcaaatttcc tgaattgcta tgtgtctggg tttcatccat ccgacattga agttgactta 120  
86 ctgaagaatg gagagagaat tgaaaaagtg gagcattcag acttgtcttt cagcaaggac 180  
88 tggtctttct atctcttgta ttatactgag ttcaccccca ctgaaaaaga tgagtatgcc 240

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90	tgccgtgtga	accacgtgac	tttgtcacag	cccaagatag	ttaagtggga	tcgagacatg	300
92	gggtggcggtg	gaagcgcgg	tgagggtct	ggtggagggtg	gcagcggctc	tcactccatg	360
94	aggattttct	tcacatccgt	gtccccggcc	ggccgcgggg	agccccgctt	catcgactg	420
96	ggctacgtgg	acgacacgca	gttcgtcggt	ttcgacagcg	acgcccgcgag	ccagaggatg	480
98	gagccgcggg	cggcgtggat	agagcaggag	ggtccggagt	attgggacgg	ggagacacgg	540
100	aaagtgaagg	cccactcaca	gactcaccga	gtggacctgg	ggaccctgctg	cggtactac	600
102	aaccagagcg	aggccgggttc	tcacaccgtc	cagaggatgt	atggctgctg	cgtggggctcg	660
104	gactggcgct	tcctccgcgg	gtaccaccag	tacgcctacg	acggcaagga	ttacatcgcc	720
106	ctgaaagagg	acctgcgc	ttggaccgcg	gcggacatgg	cagctcagac	caccaagcac	780
108	aagtgggagg	cggcccatgt	ggcggagcag	ttgagagcct	acctggaggg	cacgtgcgtg	840
110	gagtggctcc	gcagatacct	ggagaacggg	aaggagacgc	tgcagcgcac	ggacgcccc	900
112	aaaacgcaca	tgactcacca	cgctgtctc	gaccatgaag	ccaccctgag	gtgctggcc	960
114	ctgagcttct	accctgcgg	gatcacactg	acctggcagc	gacttggag	gaatcttga	1020
116	ggaatgaag	atggagctgc	gggactga				1048

119 &lt;210&gt; SEQ ID NO: 5

121 &lt;211&gt; LENGTH: 415

123 &lt;212&gt; TYPE: PRT

C--&gt; 125 &lt;213&gt; ORGANISM: Artificial

129 &lt;220&gt; FEATURE:

131 &lt;223&gt; OTHER INFORMATION: human beta2 microglobulin linked to MHC class I heavy chain

133 &lt;400&gt; SEQUENCE: 5

135 Met Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala

136 1 5 10 15

138 Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His

139 20 25 30

141 Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu

142 35 40 45

144 Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Ser Phe Tyr

145 50 55 60

147 Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp Glu Tyr Ala

148 65 70 75 80

150 Cys Arg Val Asn His Val Thr Leu Ser Gln Pro Lys Ile Val Lys Trp

151 85 90 95

153 Asp Arg Asp Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly

154 100 105 110

156 Gly Gly Ser Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser

157 115 120 125

159 Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp

160 130 135 140

162 Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met

163 145 150 155 160

165 Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp

166 165 170 175

168 Gly Glu Thr Arg Lys Val Lys Ala His Ser Gln Thr His Arg Val Asp

169 180 185 190

171 Leu Gly Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly Ser His

172 195 200 205

174 Thr Val Gln Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp Arg Phe

175 210 215 220

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Input Set : A:\SEQUENCE LISTING.txt

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177 Leu Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala  
 178 225 230 235 240  
 180 Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln  
 181 245 250 255  
 183 Thr Thr Lys His Lys Trp Glu Ala Ala His Val Ala Glu Gln Leu Arg  
 184 260 265 270  
 186 Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu  
 187 275 280 285  
 189 Asn Gly Lys Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met  
 190 290 295 300  
 192 Thr His His Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala  
 193 305 310 315 320  
 195 Leu Ser Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly  
 196 325 330 335  
 198 Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly  
 199 340 345 350  
 201 Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln  
 202 355 360 365  
 204 Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro  
 205 370 375 380  
 207 Leu Thr Leu Arg Trp Glu Gln Ser Thr Arg Gly Gly Ala Ser Gly Gly  
 208 385 390 395 400  
 210 Gly Leu Gly Gly Ile Phe Glu Ala Met Lys Met Glu Leu Arg Asp  
 211 405 410 415  
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 215 <211> LENGTH: 280  
 217 <212> TYPE: PRT  
 219 <213> ORGANISM: Homo sapiens  
 223 <400> SEQUENCE: 6  
 225 Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly  
 226 1 5 10 15  
 228 Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln  
 229 20 25 30  
 231 Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg  
 232 35 40 45  
 234 Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gly Glu Thr  
 235 50 55 60  
 237 Arg Lys Val Lys Ala His Ser Gln Thr His Arg Val Asp Leu Gly Thr  
 238 65 70 75 80  
 240 Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Val Gln  
 241 85 90 95  
 243 Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp Arg Phe Leu Arg Gly  
 244 100 105 110  
 246 Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Lys Glu  
 247 115 120 125  
 249 Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Thr Thr Lys  
 250 130 135 140  
 252 His Lys Trp Glu Ala Ala His Val Ala Glu Gln Leu Arg Ala Tyr Leu  
 253 145 150 155 160

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255 Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys  
256 165 170 175  
258 Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His  
259 180 185 190  
261 Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe  
262 195 200 205  
264 Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln  
265 210 215 220  
267 Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr  
268 225 230 235 240  
270 Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg  
271 245 250 255  
273 Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu  
274 260 265 270  
276 Arg Trp Glu Gln Ser Thr Arg Gly  
277 275 280  
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281 <211> LENGTH: 100  
283 <212> TYPE: PRT  
285 <213> ORGANISM: Homo sapiens  
289 <400> SEQUENCE: 7  
291 Met Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala  
292 1 5 10 15  
294 Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His  
295 20 25 30  
297 Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu  
298 35 40 45  
300 Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Ser Phe Tyr  
301 50 55 60  
303 Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp Glu Tyr Ala  
304 65 70 75 80  
306 Cys Arg Val Asn His Val Thr Leu Ser Gln Pro Lys Ile Val Lys Trp  
307 85 90 95  
309 Asp Arg Asp Met  
310 100  
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314 <211> LENGTH: 36  
316 <212> TYPE: DNA  
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322 <220> FEATURE:  
324 <223> OTHER INFORMATION: synthetic oligonucleotide  
326 <400> SEQUENCE: 8  
327 aggagatata catatgggt ctcactccat gaggtta 36  
330 <210> SEQ ID NO: 9  
332 <211> LENGTH: 43  
334 <212> TYPE: DNA  
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342 <223> OTHER INFORMATION: synthetic oligonucleotide

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 345 cgggcttgt tagaccgat tcataggta gggcttggg caa 43  
 348 <210> SEQ ID NO: 10  
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 352 <212> TYPE: PRT  
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 360 <223> OTHER INFORMATION: linker peptide  
 362 <400> SEQUENCE: 10  
 364 Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser 365 1 5 10 15  
 365 1 5 10 15  
 367 <210> SEQ ID NO: 11  
 369 <211> LENGTH: 35  
 371 <212> TYPE: DNA  
**C--> 373 <213> ORGANISM: Artificial**  
 377 <220> FEATURE:  
 379 <223> OTHER INFORMATION: synthetic oligonucleotide  
 381 <400> SEQUENCE: 11  
 382 ggagatatac atatgatcca gcgtactcca aagat 385 35  
 385 <210> SEQ ID NO: 12  
 387 <211> LENGTH: 49  
 389 <212> TYPE: DNA  
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 395 <220> FEATURE:  
 397 <223> OTHER INFORMATION: synthetic oligonucleotide  
 399 <400> SEQUENCE: 12  
 400 cgggcttgt tagcagccga attcattaca tgtctcgatc ccacttaac 403 49  
 403 <210> SEQ ID NO: 13  
 405 <211> LENGTH: 41  
 407 <212> TYPE: DNA  
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 415 <223> OTHER INFORMATION: synthetic oligonucleotide  
 417 <400> SEQUENCE: 13  
 418 ggaaggcggtt ggcgcatacg atccagcgta ctccaaagat t 421 41  
 421 <210> SEQ ID NO: 14  
 423 <211> LENGTH: 50  
 425 <212> TYPE: DNA  
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 431 <220> FEATURE:  
 433 <223> OTHER INFORMATION: synthetic oligonucleotide  
 435 <400> SEQUENCE: 14  
 436 ggaagcggcg gtggaggctc tggtgaggt ggcagcggct ctcactccat 439 50  
 439 <210> SEQ ID NO: 15  
 441 <211> LENGTH: 50  
 443 <212> TYPE: DNA  
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 449 <220> FEATURE:  
 451 <223> OTHER INFORMATION: synthetic oligonucleotide